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By Michelle Chan
Michelle Chan

SAH
#2 PATENT
100/06140
S-21-02

JC872 U.S. PTO
09/966863



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

JEFFREY A. WOLK et al.

Application No.:

~~Unknown~~

Filed: ~~Herewith~~

9.28.01

For: ALIGNMENT OF
MULTICOMPONENT
MICROFABRICATED STRUCTURES

Examiner: ~~Unknown~~

Atanko

Art Unit: ~~Unknown~~

1746

INFORMATION DISCLOSURE
STATEMENT UNDER 37 CFR § 1.97
AND 1.98

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

The references cited on the attached form PTO-1449 are being called to the attention of the Examiner. This application is a divisional of USSN 09/291,808, filed April 14, 1999. All references cited in the attached form 1449 have been previously cited in these applications. Copies of documents are therefore not being provided pursuant to 37 CFR §1.98(d). If copies of the references are not available to the Examiner, the Examiner is invited to contact the undersigned.

It is respectfully requested that the cited information be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

JEFFREY A. WOLK et al.

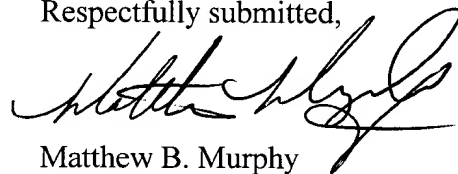
Serial No. USSN

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As provided for by 37 CFR §1.97(g) and (h), no inference should be made that the information and references cited are prior art merely because they are in this statement and no representation is made that a search has been conducted or that this statement encompasses all possible relevant information.

Applicants believe that no fee is required for submission of this statement, since it is being submitted within three months of the filing date or prior to the first Office Action. However, if a fee is required, the Commissioner is authorized to charge such fee to Deposit Account No. 03-0177. Please charge any additional fees or credit any overpayment to the above-noted deposit account.

Respectfully submitted,



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Substitute for form 1449A-B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>	Complete if Known	
	Application Number	
	Filing Date	Herewith
	First Named Inventor	Jeffrey A. Wolk
	Group Art Unit	1741
	Examiner Name	Phasge
	Attorney Docket Number	100/06110

U.S. PATENT DOCUMENTS						
Examiner Initials	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, lines, Where Relevant Passages or Relevant Figures Appeal
		Number	Kind Code (if known)			
	AA	4,390,403		Batchelder	06-28-1983	
	AB	4,908,112		Pace	03-13-1990	
	AC	4,963,498		Hillman et al.	10-16-1990	
	AD	5,089,099		Chien et al.	02-18-1992	
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	AF	5,126,022		Soane et al.	06-30-1992	
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	AK	5,192,405		Petersen et al.	03-09-1993	
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	AM	5,282,942		Herrick et al.	02-01-1994	
	AN	5,302,264		Welch et al.	04-12-1994	
	AO	5,304,487		Wilding et al.	04-19-1994	
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Examiner Signature				Date Considered		

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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	BB	5,635,358		Wilding et al.	06-03-1997	
	BC	5,637,469		Wilding et al.	06-10-1997	
	BD	5,699,157		Parce	12-16-1997	
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	BG	5,800,690		Chow et al.	09-01-1998	
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	BJ	5,869,004		Parce et al.	02-09-1999	
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	BL	5,880,071		Parce et al.	03-09-1999	
	BM	5,882,465		McReynolds	03-16-1999	
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	BO	5,890,745		Kovacs	04-06-1999	
	BP	5,942,443		Parce et al.	08-24-1999	
	BQ	5,948,227		Dubrow	09-07-1999	
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	BT	5,958,203		Parce et al.	09-28-1999	
	BU	5,958,694		Nikiforov	09-28-1999	
	BV	5,959,291		Jensen	09-28-1999	
	BW	5,964,995		Nikiforov et al.	10-12-1999	
	BX	5,965,001		Chow et al.	10-12-1999	
	BY	5,965,410		Chow et al.	10-12-1999	
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	CC	6,001,231		Kopf-Sill	12-14-1999	
	CD	6,004,515		Parce et al.	12-21-1999	

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	CE	6,011,252		Jensen	01-04-2000	
	CF	6,012,902		Parce	01-11-2000	
	CG					

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Examiner Initials	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
		Office	Number	Kind Code (if known)				
	CH	WO	9405414		Univ. Calif.	03-17-1994		
	CI	WO	9604547		Lockheed Martin	02-15-1996		
	CJ	WO	9629595		Seurat Anal.	09-26-1996		
	CK	WO	9702357		Affymetrix, Inc.	01-23-1997		
	CL	EP	107631		Bifok AB	05-02-1984		
	CM	JP	4-160356		Shimadzu Corp.	06-03-1992		
	CN							

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS				
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T	
	CO	BAO, J. et al., "Ultramicro enzyme assays in a capillary electrophoretic system," <u>J. Chroma.</u> (1992) 608:217-224		
	CP	COHEN, C.B. et al., "A Microchip-Based Enzyme Assay for Protein Kinase A," <u>Anal. Chem.</u> (1999) 273:89-97		
	CQ	DASGUPTA, P.K. et al., "Electroosmosis: A Reliable Fluid Propulsion System for Flow Injection Analysis," <u>Anal. Chem.</u> (1994) 66:1792-1798		
	CR	EFFENHAUSER, C.S. et al., "Glass Chips for High-Speed Capillary Electrophoresis Separation with Submicrometer Plate Heights," <u>Anal. Chem.</u> (1993) 65:2637-2642		
	CS	FAN, Z.H. et al., "Micromachining of Capillary Electrophoresis Injectors and Separators on Glass Chips and Evaluation of Flow at Capillary Intersections," <u>Anal. Chem.</u> (1994) 66:177-184		
	CT	HARMON, B.J. et al., "Mathematical Treatment of Electrophoretically Mediated Microanalysis," <u>Anal. Chem.</u> (1993) 65:2655-2662		
	CU	HARMON, B.J. et al., "Selectivity in Electrophoretically Mediated Microanalysis by Control of Product Detection Time," <u>Anal. Chem.</u> (1994) 66:3797-3805		

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CV	HARRISON, D.J. et al., "Capillary Electrophoresis and Sample Injection Systems Integrated on a Planar Glass Chip," <u>Anal. Chem.</u> (1992) 64:1926-1932	
CW	HARRISON, D.J. et al., "Micromachining a Miniaturized Capillary Electrophoresis-Based Chemical Analysis System on a Chip," <u>Science</u> (1993) 261:895-897	
CX	HOLLOWAY, C.J. et al., "The analysis of amino acids and peptides by isotachopheresis," <u>Electrophoresis</u> (1981) 2:127-134	
CY	JACOBSON, S.C. et al., "Effects of Injection Schemes and Column Geometry on the Performance of Microchip Electrophoresis Devices," <u>Anal. Chem.</u> (1994) 66:1107-1113	
CZ	JACOBSON, S.C. et al., "High-Speed Separations on a Microchip," <u>Anal. Chem.</u> (1994) 66:1114-1118	
DA	JACOBSON, S.C. et al., "Open Channel Electrochromatography on a Microchip," <u>Anal. Chem.</u> (1994) 66:2369-2373	
DB	JACOBSON S.C. et al., "Precolumn Reactions with Electrophoretic Analysis Integrated on a Microchip," <u>Anal. Chem.</u> (1994) 66:4127-4132	
DC	JACOBSON, S.C. et al., "Microchip electrophoresis with sample stacking," <u>Electrophoresis</u> (1995) 16:481-486	
DD	JACOBSON, S.C. et al., "Fused Quartz Substrates for Microchip Electrophoresis," <u>Anal. Chem.</u> (1995) 67:2059-2063	
DE	KJELLIN, K.G. et al., "Isotachopheresis of CSF Proteins in Gel Tubes Especially Gammaglobulins," <u>J. Neurol.</u> (1979) 221:225-233	
DF	KOPWILLEM, A. et al., "Serum Protein Fractionation by Isotachopheresis Using Amino Acid Spacers," <u>J. Chroma.</u> (1976) 118:35-46	
DG	LINHARES, M.C. et al., "Use of an On-Column Fracture in Capillary Zone Electrophoresis for Sample Introduction," <u>Anal. Chem.</u> (1991) 63:2076-2078	
DH	MANZ, A. et al., "Miniaturized Total Chemical Analysis Systems: a Novel Concept for Chemical Sensing," <u>Sensors and Actuators</u> (1990) B1:244-248	
DI	MANZ, A. et al., "Micromachining of monocrystalline silicon and glass for chemical analysis systems," <u>Trends in Anal. Chem.</u> (1991) 10(5):144-149	
DJ	MANZ, A. et al., "Planar chips technology for miniaturization and integration of separation techniques into monitoring systems," <u>J. Chroma</u> (1992) 593:253-258	
DK	MANZ, A. et al., "Electroosmotic pumping and electrophoretic separations for miniaturized chemical analysis systems," <u>J. Micromech. Microeng.</u> (1994) 4:257-265	
DL	RAMSEY, J.M. et al., "Microfabricated chemical measurement systems," <u>Nature Med.</u> (1995) 1:1093-1096	

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	DM	SANDOVAL, J.E. et al., "Method for the Accelerated Measurement of Electroosmosis in Chemically Modified Tubes for Capillary Electrophoresis," <u>Anal. Chem.</u> (1996) 68:2771-2775	
	DN	SEILER, K. et al., "Planar Glass Chips for Capillary Electrophoresis: Repetitive Sample Injection, Quantitation, and Separation Efficiency," <u>Anal. Chem.</u> (1993) 65:1481-1488	
	DO	SEILER, K. et al., "Electroosmotic Pumping and Valveless Control of Fluid Flow Within a Manifold of Capillaries on a Glass Chip," <u>Anal. Chem.</u> (1994) 66:3485-3491	
	DP	SVENDSEN, P.J. et al., "Separation of Proteins Using Ampholine Carrier Ampholytes as Buffer and Spacer Ions in an Isotachopheresis System," <u>Scienc Tools, the KLB Instrument Journal</u> (1970) 17:13-17	

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